CLAIMS

We claim:

1. A method of authenticating an electronic device, the electronic device having device specific identifying data stored therein, the method comprising:

obtaining a previously determined challenge response pair associated with the electronic device, the challenge response pair being unique and based upon the device specific identifying data of the electronic device;

communicating a challenge portion of the challenge response pair to the electronic device;

receiving from the electronic device a response to the challenge portion the response being based upon the device specific identifying information; and

comparing the response to a response portion of the challenge response pair to authenticate the user.

- 2. The method of claim 1, wherein the step of obtaining a challenge response pair comprises obtaining from a database store of challenge response pairs the challenge response pair.
- 3. The method of claim 1, wherein the step of obtaining a challenge response pair comprises generating and storing a plurality of challenge response pairs.
- 4. The method of claim 1, wherein the step of obtaining a challenge response pair comprises obtaining a challenge response pair from a challenge response pair broker.
- 5. The method of claim 1, wherein the device specific identifying data comprises data stored on a subscriber identity module (SIM) card associated with the electronic device, or computed by the SIM card upon demand.

- 6. The method of claim 1, comprising the step of discarding the challenge response pair after use.
- 7. The method of claim 1, wherein the step of obtaining a challenge response pair comprises obtaining via a secure communication interface the challenge response pair.
- 8. A system for device authentication comprising:

an agent for interrogating an electronic device to obtain at least one challenge response pair, the challenge response pair being based upon device specific identifying data retained within the electronic device;

a memory for storing the challenge response pair; and an agent for providing the challenge response pair from the memory to a user of the challenge response pair for authenticating an electronic device.

- 9. The system of claim 8, wherein the device specific identifying data comprises subscribed identity module (SIM) card data from a SIM card within the electronic device.
- 10. The system of claim 9, wherein the user comprises a service provider having a need to authenticate the electronic device.
- 11. The system of claim 10, wherein the agent for interrogating and the agent for providing are associated with the service provider.
- 12. The system of claim 8, the challenge response pair comprising a challenge portion and a response portion, and wherein the user is operable to communicate the challenge portion to the device and to receive from the device a response based upon the challenge and the device specific identifying data.
- 13. The system of claim 8, wherein the agent for providing the challenge response pair comprises a challenge response pair broker.

14. A method of providing an authentication service comprising the steps of: obtaining from an electronic device a plurality of challenge response pairs the challenge response pairs having a challenge portion and a response portion, the response portion being based upon the challenge and device specific identifying data associated with the electronic device;

storing the challenge response pairs; and

'providing responsive to a request for an authentication service a challenge response pair to a service provider for authenticating the electronic device.

- 15. The method of claim 14, wherein the step of obtaining from an electronic device a plurality of challenge response pairs comprises generating from a subscribed identify module (SIM) card a plurality of challenge response pairs and providing the SIM card to a user of the electronic device.
- 16. The method of claim 14, wherein the step of providing response to a request for an authentication service a challenge response pair comprises vending the challenge response pair.
- 17. The method of claim 14, wherein the step of providing response to a request for an authentication service a challenge response pair comprises securely communicating the challenge response pair to the service provider.